



Ing. Alena KRUPKOVÁ, Ph.D.

Date of birth 1.12.1978
Place of birth Prague, Czech Republic
Phone +420 721 830 942
E-mail krupkova@icpf.cas.cz
ORCID ID 0000-0001-9428-6393

EDUCATION

- 2002 - 2009** Institute of Chemical Technology in Prague, Faculty of chemical technology
Doctoral degree (Ph.D.) in *Organic chemistry*
Dissertation Theme: Immobilization of Titanium Cyclopentadienyl Complexes on Carbosilane Dendrimers
- 1997 - 2002** Institute of Chemical Technology in Prague, Faculty of chemical technology
Masters degree (Ing.) in *Organic chemistry and pharmacochemistry*

RESEARCH EXPERIENCE

- IX/2002 - present** Czech Academy of Sciences, Institute of Chemical Process Fundamentals
Prague, Czech Republic (www.icpf.cas.cz)
- I/2023 – present* **scientist** (Research Group of Bioorganic Chemistry and Biomaterials)
- X/2009 – XII/2022* **postdoctoral fellow** (2011 - 2016 maternity/parental leave)
- IX/2002 - IX/2009* **Ph.D. student**

- ✓ Coauthor of 17 publications in impacted journals
- ✓ Pioneered the field of carbosilane dendrimers in Czech Academy of Sciences
- ✓ Implemented organic solvent nanofiltration as a routine separation and purification procedure for dendritic compounds

RESEARCH INTERESTS

- ✓ Synthesis of carbosilane dendrimers and dendrons
- ✓ Dendrimer defect analysis (extracting NMR and MS data)
- ✓ Application of dendrimers in organocatalysis
- ✓ Application of membrane-based separations to dendrimer chemistry
- ✓ Organic solvent nanofiltration, especially behavior of cellulose membranes

OTHER INTERESTS

- ✓ Travelling, hiking, nature
- ✓ Landscape photography and computer graphics
- ✓ Ballroom dance, ice skating